

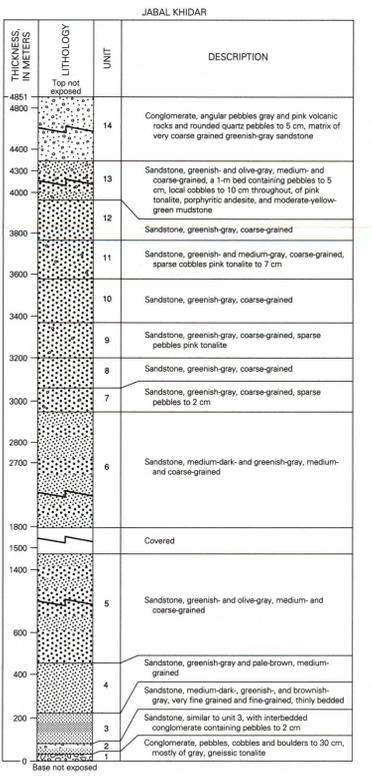
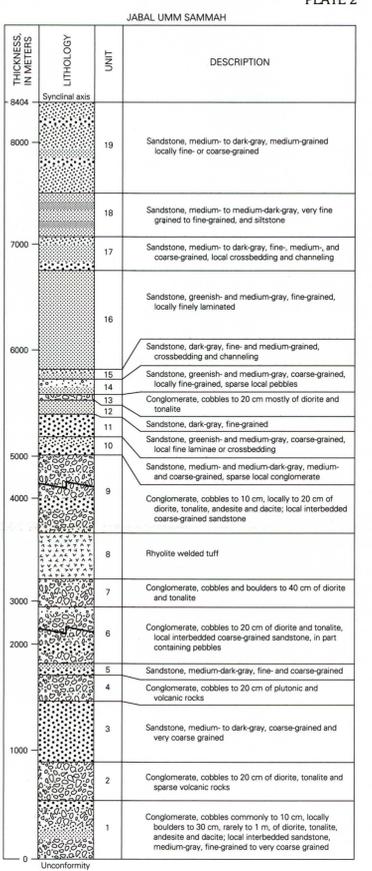
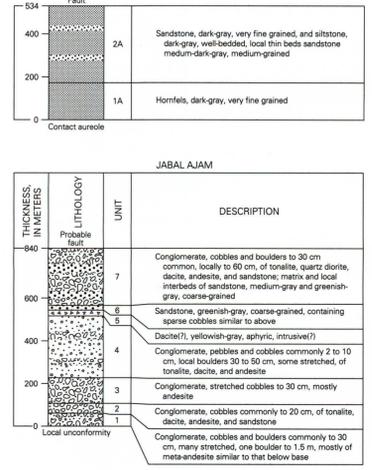
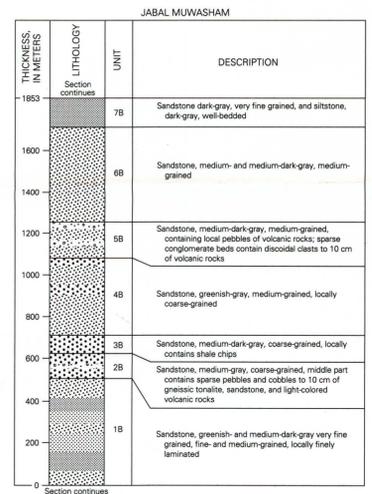
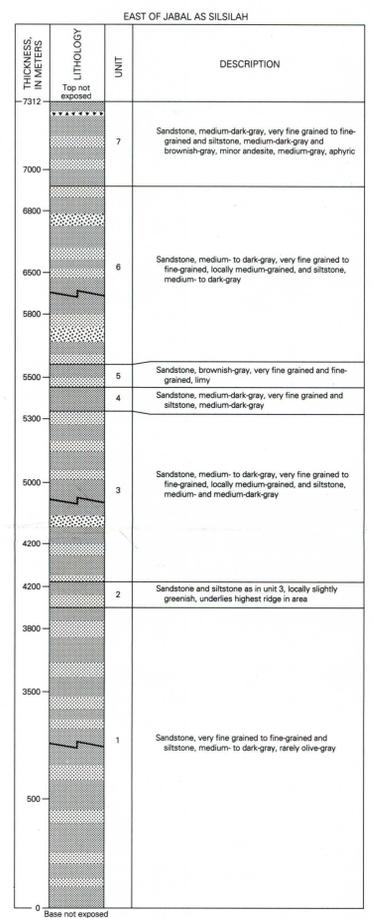
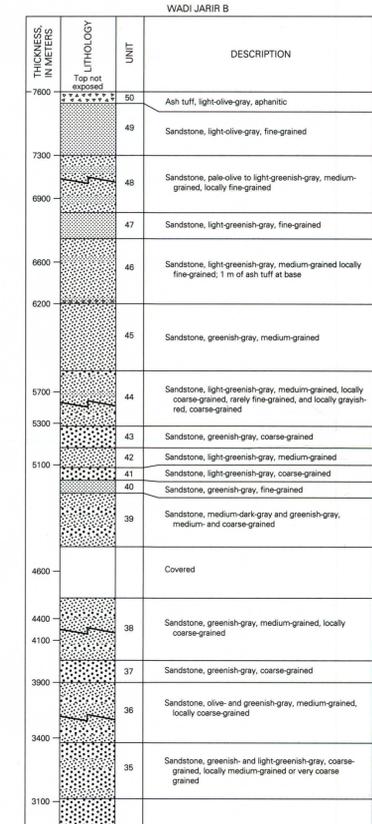
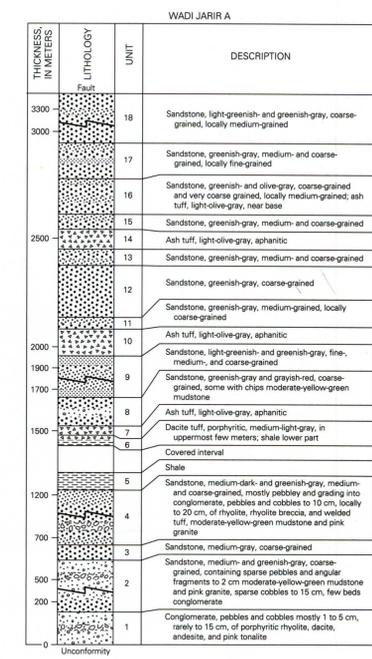
Index to 1:250,000-scale quadrangle maps and sources of mapping; and 1:100,000-scale quadrangle maps, lettered, and sources of mapping.

A Al Baayith, Williams and Simonds, 1985.
B Samirah, Williams, 1983.
C Jabal as Salsilah, du Bray, 1983a.
D Jabal Saq, du Bray, 1983b.
E Uqlat as Saqar, Cole, 1985.
F Wadi al Jarir, Young, 1982.
G Cole and Hedge, 1986, modifications of east 1/3 of Nugrah 1:250,000-scale quadrangle.

Arabic names used in this report do not necessarily conform to those officially established by the Foreign Names Committee of the Board of Geographic Names

EXPLANATION
[Units locally extend under surficial deposits.
Sequence of units approximate, many overlap in age]

- | | | | |
|--|--|--|---|
| | Quaternary surficial deposits and basalt | | Pre-Murdama intrusive rocks—As mapped, includes Sawaj suite and Laban complex |
| | Saq sandstone | | Pre-Murdama volcanic and sedimentary rocks—As mapped, includes Nugrah and Afna formations |
| | Post-Murdama intrusive rocks—As mapped, includes Idah and Abnan suites | | Contact |
| | Post-Murdama volcanic and sedimentary rocks—As mapped, includes Jurdhawiyah, Jibalah, and Shammar groups | | Fault |
| | Murdama group, undivided—As mapped, includes Maraghan formation | | Trend of bedding |
| | Qarnayn formation | | Anticline showing plunge |
| | Buqaya formation | | Syncline showing plunge |
| | Marble | | Axis of tight fold |
| | Conglomerate | | Strike and dip of beds |
| | Intrusive rocks of uncertain age | | Inclined |
| | Hibshi formation, undivided | | Vertical |
| | Volcanic rocks | | Line of measured section—See text for description of Jabal Habashi section |
| | Conglomerate | | Paved highway |



- EXPLANATION**
- Sandstone, very fine grained; siltstone
 - Sandstone, fine-grained
 - Sandstone, medium-grained
 - Sandstone, coarse-grained, and very coarse grained
 - Sandstone, pebbly
 - Conglomerate
 - Ash tuff, ash-flow tuff
 - Andesite
 - Welded tuff
 - Shale
 - Covered
- Scale compressed

**GEOLOGIC MAP AND COLUMNAR SECTIONS OF THE MURDAMA GROUP IN THE NORTH PART OF THE AFIF BELT
STRATIGRAPHY OF THE LATE PROTEROZOIC MURDAMA GROUP, SAUDI ARABIA**

By
Robert C. Greene
1993